

IN THE SPECIFICATION:

Kindly replace the paragraph [0022] with the following amended paragraph:

Density of the polyolefin used in the graft modification is generally from 0.8 to 1.5 g/cm³, preferably from 0.8 to 1.2 g/cm³, and more preferably from 0.8 to 1.1 g/cm³. Melt flow rate (MFR) at 190°C and 2.16 kg load according to ASTM D1238 is generally from 0.01 to 500 g/10 min, preferably from 0.05 to 200 g/10 min, and more preferably from 0.1 to 100 g/10 min. Where a ~~propylenebased~~ propylene-based resin is used, MFR is measured under the conditions of 230°C and 2.16 kg load.

Kindly replace the paragraph [0079] with the following amended paragraph:

The biodegradable polyester that can be used as the polar group-containing polymer (D) of the invention includes aliphatic polyesters having biodegradability that can be produced by variously combining an aliphatic hydroxycarboxylic acid, an aliphatic dihydric alcohol, an aliphatic dibasic acid, and an aromatic dibasic acid; and aromatic polyesters to which biodegradability is imparted by copolymerizing a component such as an aliphatic polyvalent carboxylic acid or an aliphatic polyhydric alcohol with an aromatic polyester. As the aliphatic polyesters having biodegradability, a polylactic acid, a polyethylene succinate, a polybutylene succinate, a polybutylene succinate adipate, a polyhydroxyalkanoate, a polyhydroxybutyric acid, a polyhydroxyvaleic acid, a copolymer of β -hydroxybutyric acid and β -hydroxyvaleic ~~acid~~ hydroxyvaleic acid, a polycaprolactone and the like can be exemplified. As the aromatic polyesters, a modified PET or modified PBT based on a polyethylene terephthalate (PET) or a polyethylene butyrate (PBT), and the like can be exemplified.

Kindly replace the paragraph [0081] with the following amended paragraph:

Further, those polyesters may be ones in which a polymer chain is extended by a binder such as ~~diisocyanate~~ diisocyanate, and ones that are copolymerized by the co-presence of a small amount of an aliphatic polyhydric alcohol such as trimethylolpropane and glycerin, an aliphatic polybasic acid such as butanetetracarboxylic acid, or polyhydric alcohols such as polysaccharide.

Kindly replace the paragraph [00910] with the following amended paragraph:

Crystallinity of the ethylene-based polymer that can be used in the invention is generally 50% or lower, preferably 30% or lower, and more preferably 20% or lower. When the ~~crystallinity~~ crystallinity is within this range, the polar group-containing polymer composition (F) is excellent in an impact resistance-improving effect.

Kindly replace the paragraph [0104] with the following amended paragraph:

The production method of the polar group-containing polymer composition (F) of the invention is not particularly limited, and can employ the known methods. For example, a method of melt kneading the resin modifier (C), the polar group-containing polymer (D), the polyolefin polymer (E), and if necessary, blendable resins and additives, en bloc or successively is exemplified. As the melt kneading method, for example, a method of dry blending each component of the resin composition (F), and melt kneading with a single screw or twin screw extruder, a Banbury mixer, a tumbler, a ~~Heschel~~ Henschel mixer, a roll, various kneaders, and the like is exemplified. Industrially, an extruder is preferably used. The melt

kneading temperature is not particularly limited as long as the resin modifier (C), the polar group-containing polymer (D), and the polyolefin polymer (E) melt. However, it is general to conduct in a temperature range of generally from 180 to 400°C, and preferably from 200 to 280°C.

Kindly replace the paragraph [0110] with the following amended paragraph:

In particular, in the case of using a polypropylene as the olefin polymer (E) for the purpose of improving heat resistance, a polypropylene having high stereo tacticity and a wide molecular weight distribution is preferable. Specifically, a polypropylene having an isotactic pentad fraction (mmmm fraction) measured by ¹³C-NMR spectrum of a component (X) insoluble in 23°C ~~paraxylene~~ para-xylene of 97% or higher, and a molecular weight distribution represented by Mw/Mn determined by gel permeation chromatography (GPC) of from 6 to 20 is preferable.

Kindly replace the paragraph [0112] with the following amended paragraph:

As the various additives, a plasticizer, a tackifier, a processing assistant, an antioxidant, an ultraviolet absorber, a weathering stabilizer, a heat stabilizer, a flame retardant, an internal release agent, an inorganic additive, an antistatic agent, a surface wettability improver, a combustion auxiliary, a pigment, a dye, a nucleating agent, a lubricant, a blooming inhibitor, a natural substance, an inorganic filler, an inorganic fiber such as a glass fiber, an organic fiber such as acrylic fiber, PET fiber, PEN fiber, kenaf or a plant fiber, an organic filler, and the like can be exemplified. Preferably, a plasticizer is exemplified. As the specific plasticizers, triacetone

triacetin, triethylene glycol diacetate, triethyl acetylcitrate, tributyl acetylcitrate, and dibutyl sebacate are exemplified.

Kindly replace the paragraph [0113] with the following amended paragraph:

Further, in T die extrusion molding, to improve blocking prevention or slipperiness of the film and sheet, an inorganic additive or a lubricant (aliphatic carboxylic amides) can be added.

As the inorganic additive, silica, mica, talc, glass fibers, glass beads, kaolin, kaolinite, barium sulfate, calcium sulfate, magnesium hydroxide, wollastonite, carbon fibers, calcium silicate fibers, magnesium oxysulfate fibers, potassium titanate fibers, calcium sulfite, white carbon, clay, montmorillonite, titanium oxide, zinc oxide, and the like are exemplified, and in particular, mica, talc, glass fibers, carbon fibers, and calcium carbonate are preferable. Those can be used alone or as mixtures of two or more. In particular, by using the glass fibers as the inorganic additive, improvement in heat resistance of the resin composition can be expected. As the organic additive, starch and its derivatives, cellulose and its derivatives, pulp and its derivatives, paper and its derivatives, wheat flour, bean curd refuse, bran, coconut shell, coffee grounds, protein, phthalic acid series, aliphatic polybasic acid series, glycerin series, citric acid series, glycol series and olefin series low molecular weight material as a plasticizer; polyethylene terephthalate fibers, polyethylene ~~naphthalate~~ naphthalate fibers, and ~~aramide~~ aramid fibers as organic fibers; and the like are exemplified. In particular, by using a plasticizer, a glass transition point (T_g) of the aliphatic polyester (A) decreases, and as a result, improvement in heat resistance, impact resistance, ductility and the like can be expected. Further, by using an organic fiber,

improvement in heat resistance can be expected. Those can be used alone or as mixtures of two or more.

Kindly replace the paragraph number at page 51, line 17 with the following amended paragraph number.

[0049] [0119]

Kindly replace the paragraph [0129] with the following amended paragraph:

Employing HMV-8CA (trade name: CARBODILITE), a product of Nisshinbo Industries, Ltd., as the carbodiimide group-containing compound (B), and making the carbodiimide equivalent be 278 g, the following calculation was conducted.

i) Carbodiimide group-containing ~~compound~~ compound (B)/maleic acid
(molar ratio)

ii) Charged polar group content to polyolefin (a-1)

Carbodiimide group/resin (mmol/polyolefin (A) 100 g)

iii) Polar group content contained in resin modifier (C)

Carbodiimide group/resin (mmol/resin modifier (C) 100

At page 71, please delete Table 1 and replace it with the following Table:

Table 1

	Example 1	Example 2	Example 3	Example 4	Example 5	Example 6	Example 7	Example 8	Example 9	Example 10
Polyolefin graft polymer Sample name	(A-1)	(A-1)	(A-1)	(A-2)	(A-1)	(A-1)	(A-3)	(A-4)	(A-5)	(A-5)
Polyolefin graft polymer (A): weight	100	100	100	100	100	100	100	100	100	100
Polyolefin (a-1)	EB-3	EB-3	EB-3	EB-3	EB-3	EB-3	PO-1	PO-2	PP-O	PP-O
Number average molecular weight (Mn): ($\times 10^4$)	4.5	4.5	4.5	4.5	4.5	4.5	2.75	4.4	3	3
Crystallinity of polyolefin: (%)	0	0	0	0	0	0	50	0	-	-
Unsaturated carboxylic acid (a-2)	MAH	MAH	MAH	MAH	MAH	MAH	MAH	MAH	MAH	MAH
Modifying amount (wt%)	0.25	0.25	0.25	0.5	0.25	0.25	0.5	0.5	1.1	1.1
Peroxide (wt%)	0.015	0.015	0.015	0.03	0.015	0.015	0.03	0.03	-	-
Amount of unsaturated carboxylic acid (a-2): (mmol)	2.55	2.55	2.55	5.10	2.55	2.55	5.10	5.10	11.22	11.22
Mn/(100 ⁴ /M)	1.15	1.15	1.15	2.30	1.15	1.15	1.40	2.24	3.37	3.37
Carbodiimide group containing compound (B): (parts by weight)	6.54	6.54	6.54	3.28	13	26	6.54	6.54	8.8	6.6
Sum of amount: (parts by weight)	106.54	106.54	106.54	103.28	113	126	106.54	106.54	108.8	106.6
(B)/(a-2): mol ratio	1.00	1.00	1.00	0.3	2.0	4.1	0.5	0.5	0.314	0.314
Content of polar group: (mmol/100g of (a-1))	24	24	24	12	47	94	24	24	32	24
After reaction										
Sample name of compatibilizer (C)	(C-1)	(C-1)	(C-1)	(C-2)	(C-3)	(C-4)	(C-5)	(C-6)	(C-7)	(C-8)
Content of polar group in (C): (mmol/100g of (a-1))	21	21	21	7	44	91	18	18	28	20
Content of carbodiimide group in carbodiimide- based resin modifier (mmol/100g of (C))	20	20	20	6	39	72	17	17	26	19

At page 72, please delete Table 2 and replace it with the following Table:

Table 2

	Comparative Example 1	Comparative Example 2 en [[brog]] bloc reaction	Comparative Example 3	Comparative Example 4	Comparative Example 5	Comparative Example 6	Comparative Example 7	Comparative Example 8
Production process of carbodiimide-based resin modifier (C)	en bloc reaction		not produced	not produced	not produced	not produced	not produced	not produced
Polyolefin graft polymer (A): (parts by weight)	100	100	100	100				
Polyolefin (a-1)	EB-3	EB-3	EB-3	EB-3		PO-3		
Number average molecular weight (Mn): ($\times 10^4$)	4.5	4.5	4.5	4.5		2.6		
Crystallinity of polyolefin: (%)	0	0	0	0		48		
Unsaturated carboxylic acid	MAH	MAH	MAH	MAH				
Modifying amount (wt%)	0.25	0.25	0.25	0.25				
Peroxide (wt%)	0.015	0.015	0.015	0.15				
Amount of unsaturated carboxylic acid (a-2): mmol	2.55	2.55						
Mn/(100 ^{wt} /M)	1.15	1.15						
Carbodiimide group containing compound (B): (parts by weight)	6.54	6.54						
Sum of amount: (parts by weight)	106.54	106.54						
(B)/(a-2): mol ratio	1.0	1.0						
Content of polar group: (mmol/100g of (a-1))	24	24						
After reaction								
Sample name of compatibilizer (C)	(C-9)	(C-10)	none	none	none	none	none	none
Content of polar group in (C): (mmol/100g of (a-1))	21	21						
Content of carbodiimide group in carbodiimide-based resin modifier (mmol/100g of (C))	20	20						

At page 73, please delete Table 3 and replace it with the following Table:

Table 3

[illegible]

At page 74, please delete Table 4 and replace it with the following Table:

Table 4

	Comparative Example 1 successive reaction	Comparative Example 2 successive reaction	Comparative Example 3 successive reaction	Comparative Example 4 successive reaction	Comparative Example 5 en bloc reaction	Comparative Example 6 en bloc reaction	Comparative Example 7 en bloc reaction	Comparative Example 8 en bloc reaction
Production process of carbodiimide-based resin modifier (C)								
Polyolefin graft polymer (A): (parts by weight)			18.773	4.693				
Polyolefin (a-1): (parts by weight)					18.723	20		
Unsaturated carboxylic acid (a-2): (parts by weight)					0.047			
Peroxide (wt%)					0.003			
Carbodiimide containing compound (B): (parts by weight)			1.227	0.307	1.227			
Peroxide Polar group containing compound [(B)] (D): (parts by weight)	PET 60	waste PET 80	PET 60	PLA 80	PET 60	PET 60	PLA 50	PLA 50
Polyolefin polymer (E): (parts by weight)	EB-4 20	PO-3 15	EB-4 20	EB-4 15	EB-4 20	EB-4 20	PP-2 50	PP-2 50
Polyolefin polymer (E): (parts by weight)								SEBS 10
Filler (parts by weight)								talc 10
Peroxide Polar polymer composition (F): (parts by weight)	100	100	100	100	100	100	100	120
Peroxide Polar polymer composition (F): 23 rd IZOD property (J/m)	609	436	698	187	*	*	15	25
-10 th IZOD property (J/m)		64		67	*	*		
[[I'-20]] -40 th IZOD property property (J/m)	133		154		*	20		
Evaluation of injection molded article of peroxide polar polymer composition						*	*	*

*: Production impossible